

## TYPE IUH INDUSTRIAL UNIT HEATER

- Applications include primary, supplementary, or auxiliary heat source in factories, stores, warehouses, public buildings, service stations, workshops, large or exposed areas or additions.
- All motors and contactor coils are 240 volt and operate on the secondary of a factory-installed step-down power transformer on 480 and 600 volt heaters so a separate fan and motor control power source is not needed.
- Steel fins are copper brazed to low watt density, steel-sheathed tubular heating elements. Fins and elements are arranged in a uniform grid pattern and fit closely into the air discharge area to assure that all incoming air passes through the heating element. Element is finished with aluminized paint for corrosion resistance. Uniform discharge of all heated air lowers internal operating temperatures and prolongs element life.
- A high-limit cutout automatically shuts off current in the event of over heating and reactivates the heater when temperature returns to normal.
- 5KW and 7.5KW heaters can be used in horizontal or vertical position. Heaters come equipped with ceiling mounting bracket for horizontal or vertical flow mounting or any position in between.
- Epoxy paint finish. Cabinet is finished with an epoxy coating for excellent corrosion resistance. The finished color is neutral grey.



5 & 7.5 KW



10 & 30 KW

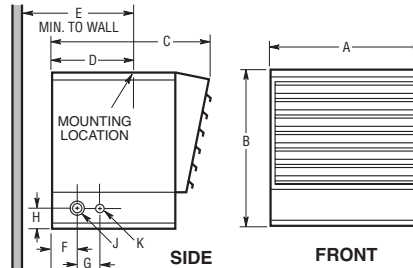
## SELECTION CHART

CATALOG NUMBER	KW. CAP.	BTU/HR.	HTR. VOLT	PHASE	THREADED ROD SIZE	HEATER AMPS		FAN MTR. HP OR WATTS	CONT. CKT. & FAN MOTOR VOLTAGE	FAN MOTOR RPM	AIR VOL. CFM	AIR TEMP. RISE	THROW	MAX MTG. HT.	WT. (Lbs.)
						1Ø	3Ø								
IUH-520 IUH-524 IUH-548 IUH-560	5	17.0	208 240 480 600	1-3 1-3 1-3 3	1/2"-13 NC	20.8 20.8 10.4 -	13.8 12.0 6.0 4.8	6.0W	240 240 240 240	1400	270	60°F	16'	8'	25
IUH-724 IUH-748 IUH-760	7.5	25.6	240 480 600	1-3 1-3 3	1/2"-13 NC	31.3 15.6 -	18.1 9.0 7.2	6.0W	240 240 240	1400	270	85°F	18'	8'	26
IUH-1024 IUH-1048 IUH-1060	10	34.1	240 480 600	1-3 1-3 3	1/2"-13 NC	43.3 21.6 -	25.7 12.8 9.6	1/10 HP	240 240 240	1550	500	63°F	20'	9'	60
IUH-1524 IUH-1548 IUH-1560	15	51.2	240 480 600	1-3 1-3 3	1/2"-13 NC	64.1 32.1 -	37.7 18.8 14.5	1/10 HP	240 240 240	1550	750	63°F	28'	11'	66 76 78
IUH-2048 IUH-2060	20	68.2	480 600	1-3 3	1/2"-13 NC	42.5 -	24.8 19.3	1/10 HP	240	1550	1000	63°F	32'	13'	76 78
IUH-2548 IUH-2560	25	85.2	480 600	3 3	1/2"-13 NC	- -	31.1 24.0	1/3 HP	240	1550	1300	61°F	34'	14'	134 140
IUH-3048 IUH-3060	30	102.2	480 600	3 3	1/2"-13 NC	- -	36.9 28.9	1/3 HP	240	1550	1800	53°F	38'	15'	140

## CONTROLS & ACCESSORIES

CATALOG NUMBER	DESCRIPTION
IUH-CWB-1	Combination wall/ceiling bracket for 5KW thru 15KW units.
IUH-CWB-2	Same as above but for 20KW thru 30KW units.
IUH-TA-1	Single pole thermostat kit (60-120°F temp. range) for field installation in all units.
IUH-TA-2	Double pole thermostat kit (60-120°F temp. range) for use with IUH-520 and IUH-521, 3Ø.
IUH-DS-30	3-pole power disconnect switch kit for field installation on all horizontal unit heaters rated 30 amps. or less.
IUH-DS-63	3-pole power disconnect switch kit for field installation on all horizontal unit heaters 10KW and above rated at 30 to 63 amps.
IUH-SW	Summer/Winter fan switch kit for field installation, built-in or remote for all units. Provides summer fan operation.

## DIMENSIONS



KW SIZE	A	B	C	D	E	F	G	H	J	K
5-7.5	14"	12 1/2"	12 3/8"	5 1/2"	13"	1 3/4"	1 3/8"	1 1/2"	(2) 1/2", 3/4"	1/2"
10-20	18"	18"	17 1/2"	9 5/32"	*	2"	2 1/2"	2 1/4"	(2) 3/4", 1"	(3) 1", 1 1/4", 1 1/2"
25-30	26"	24"	23 3/8"	9 5/32"	20"	2"	2 3/4"	2 1/4"	(2) 1", 1 1/2"	(3) 1", 1 1/2", 2"

\*13" for 10-15 KW units; 16" for 20 KW unit.

### ARCHITECT'S & ENGINEER'S SPECIFICATIONS\*

The electric horizontal heater(s) shall be as manufactured by QMark, a Marley Engineered Products Brand, Bennettsville, S.C. Heater(s) shall be fully UL and C-UL approved, designed for either wall or ceiling mounting without modification, and be of \_\_\_\_ KW capacity (or as shown on plans).

**HOUSING:** The cabinet shall be of heavy gauge, cold-rolled steel, welded and phosphatized, then finished with an epoxy paint. Front and back panels shall be removable to gain full access to element, motor and fan area (5-7.5 KW units). Side panels shall be removable without dismantling the heater by removing four screws from inside the control box, thus permitting full access to the element and fan motor areas (10-30 KW units). Adjustable louvers shall be permanently attached and shall provide the desired directional control of air flow.

**CONTROL BOX:** The control box, housing all heater wiring and controls, shall be located at the bottom of the heater and equipped with a swing-down hinged cover to permit full access for installation, and for cleaning and servicing without dismantling the heater.

**WIRING:** All heater and control wiring connections shall terminate in the control box. Proper wiring diagram shall be attached to the inside of the control box. 75°C wire must be used to enter the wiring compartment.

**CONTACTORS:** All heaters shall have a built-in, heavy duty, 3-pole contactor providing quiet, efficient operation, making external contacts and additional wiring unnecessary.

**FAN MOTOR:** Fan motor shall be totally enclosed, permanently lubricated, impedance protected and of unit bearing design suitable for horizontal or vertical operation with high starting and running torques. (5-7.5 KW units). Fan motor shall be totally enclosed, permanently lubricated, thermally protected and of double bearing design with high starting and running torques (10-30 KW units). Fan motor and controls shall be built into the unit to provide proper fan motor and control operation.

**FAN DELAY:** Fan control shall be bimetallic snap-action, and shall activate fan after heating element reaches operating temperature and continue to operate fan after the thermostat is satisfied until the heating element is cool.

**HEATING ELEMENT:** The heating element shall be warranted for five years and shall be non-glowing design consisting of a special resistance wire enclosed in the steel sheath to which steel plate fins are brazed. The element shall be painted with aluminized paint for corrosion resistance. The heating element shall cover the entire air discharge area for uniform heating.

**THERMAL CUTOUT:** Thermal cutout shall be attached directly to each bank of elements to shut off the heater in the event of overheating and reactivate the heater when temperature return to normal.

\* QMark reserves the right to change specifications without prior notice.